If you are using a printed copy of this procedure, and not the on-screen version, then you MUST make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are available by contacting the ESSHQ Procedures Coordinator, Bldg. 911A

C-A OPERATIONS PROCEDURES MANUAL

7.1.75 1005R Vacuum Pump-Outs

Text Pages 2 through 5

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials

Approved: _____***Signature on File***_____ _____
Collider-Accelerator Department Chairman Date

K. Riker

7.1.75 1005R Vacuum Pump-Outs

1. Purpose:

This procedure provides a list of pump-out ports for the RHIC refrigerator room vacuum jacketed lines.

2. Responsibilities:

A RHIC Cryogenic Mechanical Technician is responsible for implementing this procedure

3. Prerequisites:

None

4. Precautions:

Ensure compliance with the Fall Protection section of the SBMS before working at heights.

5. Procedure:

Before each RHIC cooldown, all the vacuum jacketed lines in 1005R must be checked/pumped out to ensure that they are less than 50 microns. Use Table 5.1, and Drawing 3A995047 (Interconnecting Piping Diagram) to locate the pump-outs. Record the final readings in the Table.

Table 5.1 Bldg 1005R Vacuum Jacketed Lines Pump-Out Port Locations

VACUUM PUMP OUT	VACUUM READING		COMMENTS
	Reading	Date	
FSP-4-1			Connects CB #3 to CB #4 (16 " line)
FSP-4-2			Connects CB #3 to CB #4 (16 " line
FSP-4-3			Connects CB #3 to CB #4 (16 " line)
FSP-4-4			Connects CB #3 to CB #4 (16 " line
FSP-5-1			From Adsorber A + B valves H371A,H771A
FSP-5-2			From Adsorber A + B valves H371A,H771A
FSP-5-3			From Adsorber A + B valves H371A,H771A
FSP-6-1			From CB#3 to Adsorber A+B
FSP-6-2			From CB#3 to Adsorber A+B
FSP-6-3			From CB#3 to Adsorber A+B
FSP-7-1			From CB#3 to Adsorber A+B valves H362A,H762A
FSP-7-2			From CB#3 to Adsorber A+B valves H362A,H762A
FSP-7-3			From CB#3 to Adsorber A+B valves H362A,H762A
FSP-7-4			From CB#3 to Adsorber A+B valves H362A,H762A
FSP-8-1			From CB#3 to turbine pod #4.
FSP-8-2			From CB#3 to turbine pod #4.
FSP-8-3			From CB#3 to turbine pod #4.
FSP-9-1			From CB#3 to turbine pod #3.
FSP-9-2			From CB#3 to turbine pod #3.
FSP-9-3			From CB#3 to turbine pod #3.
FSP-10-1			From CB#3 to turbine pod #3.
FSP-10-2			From CB#3 to turbine pod #3.
FSP-10-3			From CB#3 to turbine pod #3.
FSP-11-1			From CB#3 to turbine pod #4.
FSP-11-2			From CB#3 to turbine pod #4.
FSP-11-3			From CB#3 to turbine pod #4.
FSP-15-1			From Turbine #4 (H760M) to CB #3.
FSP-15-2			From Turbine #4 (H760M) to CB #3
FSP-15-3			From Turbine #4 (H760M) to CB #3
FSP-16-1			From turbine Pod #3 (H360M) to CB #3.
FSP-16-2			From turbine Pod #3 (H360M) to CB #3.
FSP-16-3			From turbine Pod #3 (H360M) to CB #3.
FSP-17-1			From Turbine pod #5 to CB #4.
FSP-17-2			From Turbine pod #5 to CB #4.
FSP-17-3			From Turbine pod #5 to CB #4.
FSP-17-4			From Turbine pod #5 to CB #4.
FSP-17-5			(Cold turbine inlet filters)
FSP-18-1			From CB#4 to turbine pod #6.
FSP-18-2			From CB#4 to turbine pod #6.
FSP-18-3			From CB#4 to turbine pod #6.
FSP-19-1			From CB #4 to turbine pod #6.
FSP-19-2			From CB #4 to turbine pod #6.
FSP-19-3			From CB #4 to turbine pod #6.
FSP-19-4			From CB #4 to turbine pod #6.
FSP-20-1			From CB #4 to turbine pod #5.
FSP-20-2			From CB #4 to turbine pod #5.
FSP-20-3			From CB #4 to turbine pod #5.

VACUUM PUMP OUT	VACUUM READING		COMMENTS
	Reading	Date	
FSP-21-1			From CB#4 to turbine pod #5
FSP-21-2			From CB#4 to turbine pod #5
FSP-21-3			From CB#4 to turbine pod #5
FSP-24-1			From CB#4 to CB#6
FSP-24-2			From CB#4 to CB #6
FSP-31-1			From H156M to CB#3
FSP-31-2			From H156M to CB#3
FSP-31-3			From H156M to CB#3
FSP-31-4			From H156M to CB#3
FSP-32-1			From H157M to CB#3
FSP-32-2			From H157M to CB#3
FSP-32-3			From H157M to CB#3
FSP-38-1			From H799M to CB#4
FSP-38-2			From H799M to CB#4
FSP-38-3			From H799M to CB#4
FSP-39-1			Top of Turbine pod 7(CB#5 square box)
FSP-39-2			Top of Turbine pod 7(CB#5 square box)
FSP-39-3			Top of Turbine pod 7(CB#5 square box)
FSP-40-1			From H399M to CB#4
FSP-40-2			From H399M to CB#4
FSP-40-3			From H399M to CB#4
FSP-41-1			From H158M to CB#4 (Very high)
FSP-41-2			From H158M to CB#4
FSP-41-3			From H158M to CB#4
FSP-41-4			From H158M to CB#4 (found nearest H158M)
FSP-46-1			Outside connecting CB#3 & CB #4
FSP-46-2			Outside connecting CB#3 & CB #4
FSP-47-1			Outside connecting CB#3 & CB#4
FSP-47-2			Outside connecting CB#3 & CB#4
FSP-48-1			From turbine pod #5 to CB#4
FSP-48-2			From turbine pod #5 to CB#4
FSP-48-3			From turbine pod #5 to CB#4
FSP-51-1			From CB#4 to CB#6
FSP-51-2			From CB#4 to CB#6
C-C.#1			Cold compressor pod #1
C.C.#2			Cold compressor pod #1

6. Documentation:

Record final vacuum readings in Table 5.1

7. References:

7.1 3A995047 Interconnecting Piping Diagram

7.2 SBMS – Fall protection

8. Attachments:

None